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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/787,315	02/27/2004	Jason T. Griffin	13210-18	4333

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RESEARCH IN MOTION
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EXAMINER

KEATON, SHERROD L

ART UNIT	PAPER NUMBER
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2175

NOTIFICATION DATE	DELIVERY MODE
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12/28/2009

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/787,315	Applicant(s) GRIFFIN, JASON T.	
	Examiner SHERROD KEATON	Art Unit 2175	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-12,15,22-28,31 and 34-38 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1, 3-12, 15, 22-28, 31 and 34-38 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

This action is in response to the filing of 9-8-2009. Claims 1, 3-12, 15, 22-28, 31 and 34-38 are pending and have been considered below:

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 3- 7, 9, 10 12, 15, 22, 23, 25, 26, 28, 31, 34, 35 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chua (US 2004/0183833 A1) in view of Davidson (US 5627567) and Vargas (5748512).

Claims 1 and 34: Chua discloses a method and computer readable medium

comprising:

associating areas of a touch interface of a mobile electronic device with characters wherein at least some of the associated areas overlap with one another (Page 2, Paragraph 23 and 24) ;

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detecting a location of a user's touch on the touch interface and for each area of the touch interface which includes the location, identifying the character associated therewith (Page 2, Paragraph 19 and 20).

However Chua does not explicitly show an intermediate region that represents more than one character. However Davidson shows the functionality of providing control areas with extended regions which form an intermediate region (Figure 9, Column 18, Lines 7-14). Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to use the functionality of Davidson to provide the intermediate regions in Chua to represent multiple letters. One would have been motivated to use the functionality of an intermediate region to improve user selection and error control.

Nor does Chua explicitly disclose wherein for a first character, the associating comprises associating an area of the touch interface with the first character by joining the centers of characters nearest to the first character. However Vargas discloses a functionality of associating a center point of letters associated with the intended selection. (Figure 2, Column 5, Line 40-Column 6, Line 7). Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to provide the functionality of associating the centers of letters in Chua as taught in Vargas. One would have been motivated to provide this functionality to offer an improved method of determining the intended selection by the user when multiple options are present.

Claim 3: Chua, Davidson and Vargas disclose a method as in Claim 1 and further discloses if two or more characters are identified, using predictive software text to select one of the characters (Chua: Page 2, Paragraph 23; Page 5, Paragraph 55).

Claim 4: Chua, Davidson and Vargas disclose a method as in Claim 3 and further discloses providing the predictive software text with an indication that the location is closer to one of the identified characters than to others of the identified characters (Chua: Page 2, Paragraph 23; Page 5, Paragraph 55).

Claim 5: Chua, Davidson and Vargas disclose a method as in Claim 3 and further discloses providing the predictive software text with an indication of how much closer the location is to one of the identified characters than to others of the identified characters (Chua: Page 2, Paragraph 23; Page 5, Paragraph 55).

Claim 6: Chua discloses a mobile electronic device comprising:

one or more touch interfaces to receive a touch by a user (Page 2, Paragraphs 19 and 20);

a display for displaying one or more rows of characters (Page 2, Paragraphs 19 and 20);

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a microprocessor for associating overlapping areas of the one or more touch interfaces with the characters wherein at least some of the areas overlap with one another (Page 2, Paragraphs 19-24);

and identify which characters are associated with the areas of the one or more touch interfaces that include a location of the touch (Page 2, Paragraphs 22 and 26).

However Chua does not explicitly show an intermediate region that represents more than one character. However Davidson shows the functionality of providing control areas with extended regions which form an intermediate region (Figure 9, Column 18, Lines 7-14). Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to use the functionality of Davidson to provide the intermediate regions in Chua to represent multiple letters. One would have been motivated to use the functionality of an intermediate region to improve user selection and error control.

Nor does Chua explicitly disclose wherein for a first character, an area of the one or more touch interfaces associated with the first character is bounded by joining the centers of characters nearest to the first character. However Vargas discloses a functionality of associating a center point of letters associated with the intended selection. (Figure 2, Column 5, Line 40-Column 6, Line 7). Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to provide the functionality of associating the centers of letters in Chua as taught in Vargas. One would have been motivated to provide this functionality to offer an improved method of determining the intended selection by the user when multiple options are present.

Claim 22: Claim 22 is similar in scope to Claim 6 and is rejected with the same rationale.

Claim 7: Chua, Davidson and Vargas disclose a mobile electronic device as in Claim 6 above wherein the one or more touch interfaces is a single touchpad (Chua: Page 2, Paragraphs 18-20).

Claim 23: Claim 23 is similar in scope to Claim 7 and is rejected with the same rationale.

Claim 9: Chua, Davidson and Vargas disclose a mobile electronic device as in Claim 6 above wherein the one or more touch interfaces are two or more touchpads (Chua: Page 2, Paragraphs 18-20).

Claim 25: Claim 25 is similar in scope to Claim 9 and is rejected with the same rationale.

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Claim 10: Chua, Davidson and Vargas disclose a mobile electronic device as in Claim 6 above and further discloses where the one or more touch interfaces is a single touchscreen (Chua: Page 2, Paragraphs 18-20).

Claim 26: Claim 26 is similar in scope to Claim 10 and is rejected with the same rationale.

Claim 12: Chua, Davidson and Vargas disclose a mobile electronic device as in Claim 10 above and discloses where for a first character, an area of the touchscreen associated with the first character is overlapped by an area of the touchscreen associated with a different character of an adjacent row (Chua: Page 2, Paragraphs 19-24).

Claim 28: Claim 28 is similar in scope to Claim 12 and is rejected with the same rationale.

Claim 15: Chua, Davidson and Vargas disclose a mobile electronic device as in Claim 6 above and further discloses that the microprocessor is configured to execute a predictive software text module to select one of the characters (Chua: Page 2, Paragraphs 18-20).

Claim 31: Claim 31 is similar in scope to Claim 15 and is rejected with the same rationale.

Claim 35: Chua, Davidson and Vargas disclose a medium of claim 1, wherein the method further comprises if two or more characters are identified, using predictive text software to select one of the characters (Vargas: Column 5, Line 25-Column 6, Line 7).

Claim 38: Claim 38 is similar in scope to Claim 1 and is rejected with the same rationale.

3. Claims 8, 11, 24 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chua (US 2004/0183833 A1), Davdison (5627567) and Vargas (5748512) in further view of Moon et al (US 6259436 B1)

Claim 8: Chua, Davidson and Vargas disclose a mobile electronic device as in Claim 7 above but do not explicitly disclose that the rows of characters are spaced at a sufficient vertical distance that there is no ambiguity as to which row of characters is being

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touched. However Moon discloses an apparatus and method for determining selection of touchable items on a computer touchscreen by an imprecise touch and further discloses having sufficient space on a touchscreen and or keyboard (Column 4, Lines 41-49) (Column 5, Lines 1-15). Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to also provide sufficient space on a keyboard of the modified Chua. One would have been motivated to provide sufficient space between letters to cut down on the high risk of errors.

Claim 24: Claim 24 is similar in scope to Claim 8 and is rejected with the same rationale.

Claim 11: Chua, Davidson and Vargas disclose a mobile electronic device as in Claim 10 above but does not explicitly disclose that the rows of characters are spaced at a sufficient vertical distance that there is no ambiguity as to which row of characters is being touched. However Moon discloses an apparatus and method for determining selection of touchable items on a computer touchscreen by an imprecise touch and further discloses having sufficient space on a touchscreen (Column 4, Lines 41-49). Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to also provide sufficient space on the keyboard representation of Chua. One would have been motivated to provide sufficient space between letters to cut down on the high risk of errors.

Claim 27: Claim 27 is similar in scope to Claim 11 and is rejected with the same rationale.

4. Claims 36 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chua (US 2004/0183833 A1), Davidson (5627567) and Vargas (5748512) in further view of Robinson et al ("Robinson" US 6801190 B2).

Claim 36: Chua, Davidson and Vargas disclose a medium of claim 35, but do not explicitly disclose wherein the method further comprises: providing the predictive text software with an indication that the location is closer to one of the identified characters than to others of the identified characters. However Robinson discloses a touch screen system with a functionality of determining which letter is closet to the point of contact to provide the word choice list (Column 23, Line 50-Column 24, Line 5). Therefore it would have been obvious to one ordinary skill in the art at the time of the invention to provide the functionality of Robinson in the modified Chua. One would have been motivated to provide the functionality to improve accuracy when attempting to offer a selection to the user.

Claim 37: Chua, Davidson and Vargas disclose a medium of claim 35, but do not explicitly disclose wherein the method further comprises: providing the predictive text

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software with an indication of how much closer the location is to one of the identified characters than to others of the identified characters. However Robinson discloses a touch screen system with a functionality of determining which letter is closest to the point of contact with a calculated distance in order to provide the word choice list (Column 23, Line 50-Column 24, Line 5). Therefore it would have been obvious to one ordinary skill in the art at the time of the invention to provide the functionality of Robinson in the modified Chua. One would have been motivated to provide the functionality to improve accuracy when attempting to offer a selection to the user.

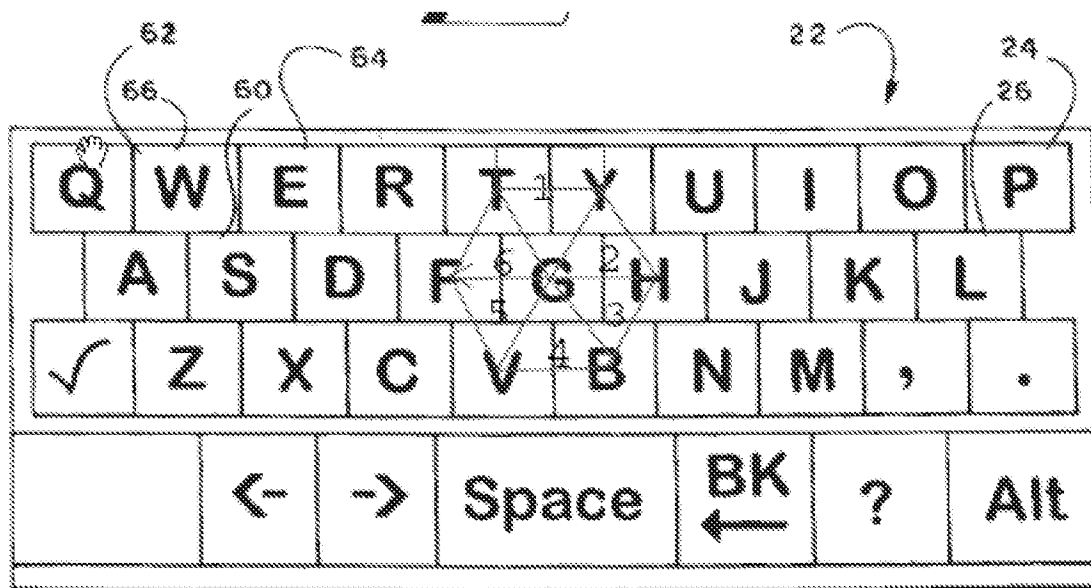
Response to Arguments

5. Applicant's arguments have been considered but are not persuasive. Applicants argue that Chua does not disclose associating areas of a touch screen with a character wherein at least some of the associated areas overlap with one another to form intermediate regions that represent more than one character. Examiner disagrees. Chua has shown through his drawings and disclosure associating areas with characters that can represent more than one character (Paragraph 23). This is to allow for correction to possible inaccurate aim. Chua does not explain in detail that intermediate regions are formed, therefore Davidson has been provided to show that the functionality

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of overlapping regions (Figure 9a) to form an intermediate region was known. Therefore the known functionality of an intermediate region can be incorporated with the Chua functionality. Hence the functionality is provided, how the system addresses the selection may differ but does not take away from the fact that the functionality exist.

6. Per the Vargas reference:



Vargas' algorithm for selecting the three proximate keys has the effect of associating the letters in the middle row (S, D, F, G, H, J, & K) to an area of the touch screen that is bounded by the centers of the adjacent keys as described in [0050] of the present invention.

Refers to the marked area in fig.2 around the letter G for example, if the touched location is within area 1, Vargas' algorithm would select letters G, T, and Y for analysis because those are the three letters with center points closest to the touched position. Touch in area 2, letters G, Y and H would be selected. Touch in area 3 letters G, H,

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and B would be selected. Touch in area 5 letters G, V and F would be selected. Touch in area 6, letters G, F and T would be selected.

A touch within any of the areas 1 to 6 would result in letter G being selected as one of the letters for further analysis because its center point would be one of the three closest to the touch location. Hence, areas 1 to 6 are effectively associated with the letter G. Areas 1 to 6 together are bounded by joining the centers of the letters T, Y, H, B, V, and F. These are letters nearest to letter G. Therefore, letter G is associated with an area of the touch screen that is bounded by joining the centers of its nearest letters. This is the same association described in [0050] of the present invention.

7. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). Combining the functionalities of the cited references which all pertain to touchscreen selection/prediction would have been well known to one skilled in the art.

Conclusion

Applicants amendments necessitated the new ground(s) of rejection presented in this office action.

Accordingly, **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sherrod Keaton whose telephone number is 571) 270-1697. The examiner can normally be reached on Mon. thru Fri. and alternating Fri. off (EST).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Bashore can be reached on 571-272-4088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-3800.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SLK

12-16-09

/William L. Bashore/

Supervisory Patent Examiner, Art Unit 2175